## TN-THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

BYRUM, et al.

Group Art Unit: To Be Assigned

Appln. No.: Not Yet Assigned

Examiner: To Be Assigned

Filed: Herewith

Atty. Docket: 38-21(15367)C

For:

Nucleic Acid Molecules and Other Molecules

Associated with Plants

## **INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

The attention of the Examiner is invited to the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

## **CERTIFICATION AND/OR FEE**

Because this Information Disclosure Statement is being submitted prior to issuance of the first action on the merits of the above-captioned application, no certification or fee is required.

If any charges are deemed appropriate, applicants hereby authorize the U.S. Patent Office to charge any fee to our Deposit Account No. 13-4125 under our reference number 38-21(15367)C.

Respectfully submitted

Lawrence M. Lavin, Jr. (Reg. No. 30,768

by June E. Cohan (Reg. No. 43,741)

Date:

Monsanto Company

800 N. Lindbergh Blvd. St. Louis, MO 63167

314-694-3602 telephone

314-694-1671 facsimile

			<del></del>			ATTY. DO	CKET NO.		APPLIC/	ATION NO.	
							(15367)	С		Assigned	T L
		FORM F	PTO-1449	)		APPLICAN	√TS				4 50
INF				STATEMEN	I	Joseph R. BYRUM et al.					24.5
						FILING DA	ATE		GROUP		09/
						Herewi	t h		To Be A	Assigned	0 110
					U.S.	PATENT DO	CUMENTS				
EXAMINER INITIAL	T	DOCU	UMENT	DATE	NAME				CLASS	SUB- CLASS	FILING DATE
INITAL	AAI	INDIVIA	JEK	DAIL	INNIE				CLACO	CEACO	Tibling Ditte
	ABI	+		1	1			<del></del>	1	-	<b>-</b>
	AC1			1							
	AD1					_					
	AEI										
	AFI										
	AG1			1	1						
	AH1										
	AII										
	AJI						***************************************				
	AKI										-
		<b></b>			FOREI	JN PATENT I	DOCUMENTS		-		
EXAMINER	1		UMENT	DATE	COUNTR	···			CLASS	SUB- CLASS	TRANSLATION
INITIAL	AL1	NUME	3EK	DATE	COUNTR	.1			CLASS	CLASS	Yes
	ALI	<u> </u>		<del> </del>	<del> </del>				<del>                                     </del>	<u></u>	No Yes
	AM1	<u> </u>					,			ļ	No
	ANI										Yes No
	AOI				1						Yes No
	API	-		<del>                                     </del>	+						Yes
	] AF 1	<u></u>		OTHE	T. Caludina	Austra Title	Data Bartinent	Page ata)		<u> </u>	No
	<del></del>	<del>                                     </del>	r	UIRE	K (Including /	Author, Tiue, i	Date, Pertinent	Pages, cic.,			
	AR	1	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," Science, 252:1651-1656 (June 21, 1991).								
	AS	1	Ebert et al., "Identification of an Essential Upstream Element in the Nopaline Synthase Promoter by Stable and Transient Assays," Proc. Natl. Acad. Sci., 84:5475-5749 (August 1987).								
	AT	1	Efstrati	iadis <i>et al</i> ., '	"Enzymatic	: In Vitro Syi	nthesis of Glo	obin Genes,"	Cell, 7:279-	288 (Febru	ary 1976).
EXAMINER		L							DATE CO	NSIDERED	

.,									Page 2 of 3		
• .		i	1			ATTY. DOCKET NO.	APPLIC	ATION NO.	•		
						38-21(15367)C		Assigned			
•		FORM I	PTO-1449			APPLICANTS					
INFO				STATEMEN	<u>1T</u>	Joseph R. BYRUM et al.					
						FILING DATE	GROUP				
						Herewith	To Be	Assigned			
<u> </u>					U.S.	. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCU	UMENT BER	DATE	NAME		CLASS	SUB- CLASS	FILING DATE		
	AA2										
	AB2		··								
	AC2	Τ									
	AD2										
	AE2										
······································	AF2										
	AG2	1		†							
	AH2										
	AI2										
	AJ2	<u> </u>			+			1			
· · ·	AK2	$\vdash$		1	1			<del>                                     </del>	<del></del>		
					FOREI	GN PATENT DOCUMENTS					
EXAMINER	T		UMENT	DATE	COUNTR	nv	CLASS	SUB- CLASS	TRANSLATION		
INITIAL	AL2	NUM	BEK	DATE	COUNTR	<u> </u>	CLASS	CLASS	Yes		
	ALZ			<del>                                     </del>					No Yes		
	AM2								No No		
	AN2								Yes No		
	+	-			+			1 .	Yes		
	AO2	<u> </u>		<u> </u>				<del> </del>	No Yes		
	AP2								No No		
		•		OTHE	R (Including	Author, Title, Date, Pertinent Pages,	etc.)				
			V- "A	- Wanalia	ad aDMA I	ibrary' by the Description of (	Short Double Street	nded cDNA	s" Nuclaic Acids		
	AR	2	Ko, "An 'Equalized cDNA Library' by the Reassociation of Short Double-Stranded cDNAs," No. Research, 18:5705-5711 (October 11, 1990).								
		<del> </del>				•					
	AS	2	Kurata et al., "A 300 Kilobase Interval Genetic Map of Rice Including 883 Expressed Sequences," Nature Genetics, 8:365-372 (December 1994).								
			McCor	mbie <i>et al</i> .,	"Caenorha	bditis elegans Expressed Sequer	nce Tags Identify (	Gene Famil	ies and Potential		
· ·	AT	2	McCombie et al., "Caenorhabditis elegans Expressed Sequence Tags Identify Gene Families and Poten Disease Gene Homologues," Nature Genetics, 1:124-131 (May 1992).								
EXAMINER							DATE CO	NSIDERED			
EXAMINER: I considered. Incl	nitial if ref	ference o	onsidered	, whether or r	not citation is	in conformance with MPEP 609. Dra	aw line through citation	n if not in co	informance and not		

					ATTY. DOCKET NO.	APPLIC	ATION NO.			
					38-21 (15367) C		To Be Assigned			
	:	FORM PTO-1449	n		APPLICANTS					
INFO		N DISCLOSURE		<u>T</u>	Joseph R. BYRUM et al.					
					FILING DATE	GROUP				
					Herewith	To Be A	To Be Assigned			
				U.S.	PATENT DOCUMENTS		***			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUB- CLASS	FILING DATE		
	AA3									
	AB3									
	AC3									
	AD3									
	AE3									
	AF3									
	AG3				and the state of t					
	AH3		1				i			
	AI3			1						
	AJ3									
-	AK3									
		1		FOREIG	IN PATENT DOCUMENTS		.1	<del>-</del>		
EXAMINER		DOCUMENT	DATE	COLINEED	17	CLASS	SUB-	TO A NO. A TION		
EXAMINER INITIAL	412	DOCUMENT NUMBER	DATE	COUNTR	Y	CLASS	SUB- CLASS	TRANSLATION Yes		
	AL3		DATE	COUNTR	Y	CLASS		Yes - No		
	AL3 AM3		DATE	COUNTR	Y	CLASS		Yes - No Yes No		
			DATE	COUNTR	Y	CLASS		Yes - No Yes		
	AM3		DATE	COUNTR	Y .	CLASS		Yes No Yes No Yes No Yes No Yes		
	AM3		DATE	COUNTR	Y .	CLASS		Yes No Yes No Yes No Yes No Yes No Yes Yes		
	AM3 AN3 AO3							Yes No Yes No Yes No Yes No		
	AM3 AN3 AO3				Y  Author, Title, Date, Pertinent Pages, et			Yes No Yes No Yes No Yes No Yes No Yes Yes		
	AM3 AN3 AO3	NUMBER Okubo	OTHER	R (Including A		cc.)	CLASS	Yes No Yes No Yes No Yes No Yes No Yes No		
	AM3 AN3 AO3 AP3	3 Okubo Expres	OTHER o et al., "Larg	R (Including A ge Scale cDl re Genetics,	Author, Title, Date, Pertinent Pages, et	Quantitative and (	Qualitative	Yes No Yes No Yes No Yes No Yes No Yes No Aspects of Gene		
	AM3 AN3 AO3 AP3	3 Okubo Expres	OTHER o et al., "Larg ssion," Natur et al., "Histo	R (Including A ge Scale cDl re Genetics,	Author, Title, Date, Pertinent Pages, et NA Sequencing for Analysis of ( 2:173-179 (November 1992).	Quantitative and (	Qualitative	Yes No Yes No Yes No Yes No Yes No Yes No Aspects of Gene		
EXAMINER	AM3 AN3 AO3 AP3  AR  AS	3 Okubo Expres 3 Yomo Planta	OTHER o et al., "Larg ssion," Natur et al., "Histo , 112:35-43 (	R (Including A ge Scale cDl re Genetics, ochemical S (1973).	Author, Title, Date, Pertinent Pages, et NA Sequencing for Analysis of ( 2:173-179 (November 1992).	the Cotyledons of	Qualitative of Germinati	Yes No Yes No Yes No Yes No Yes No Aspects of Gene		